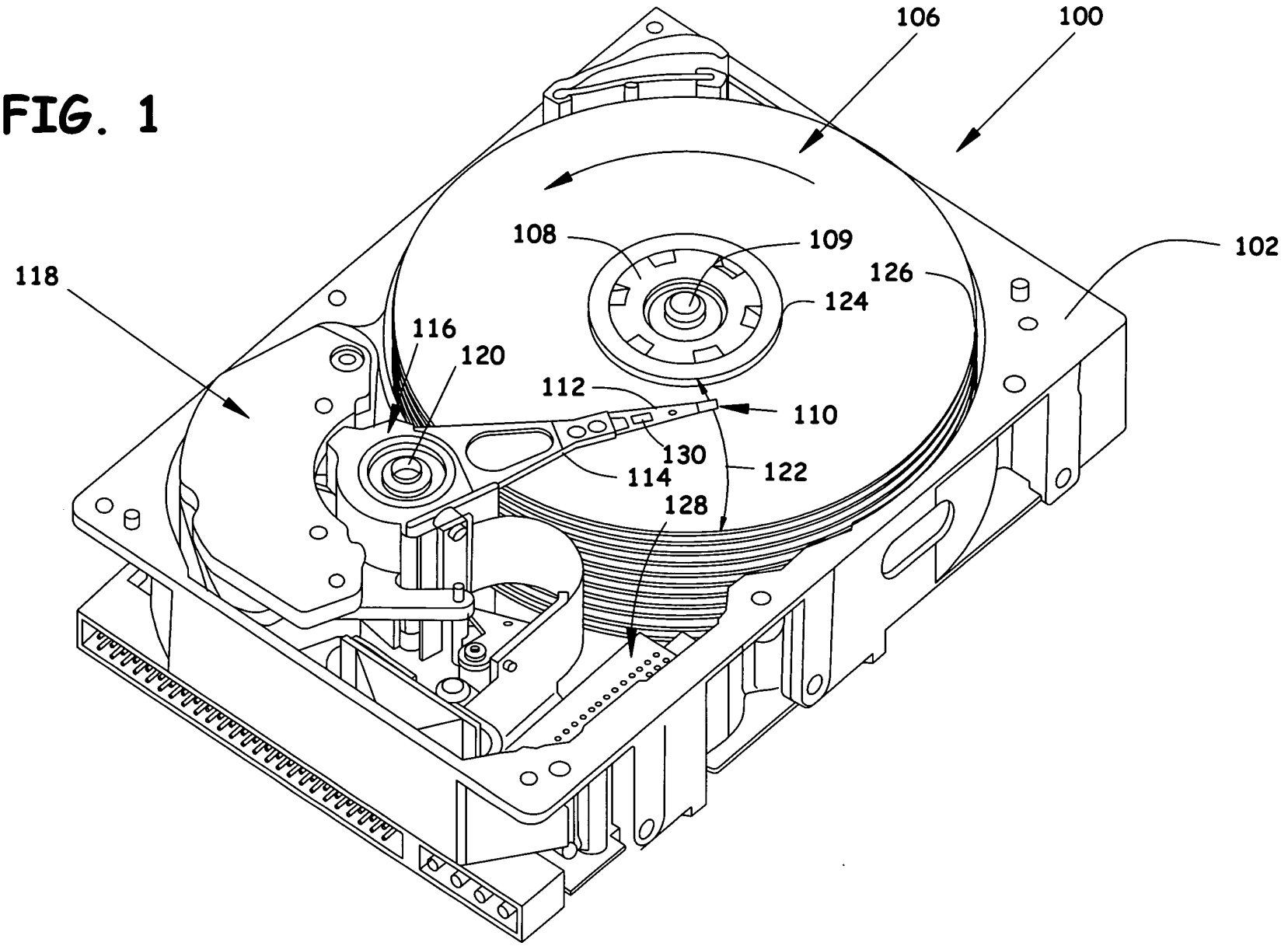
FIG. 1



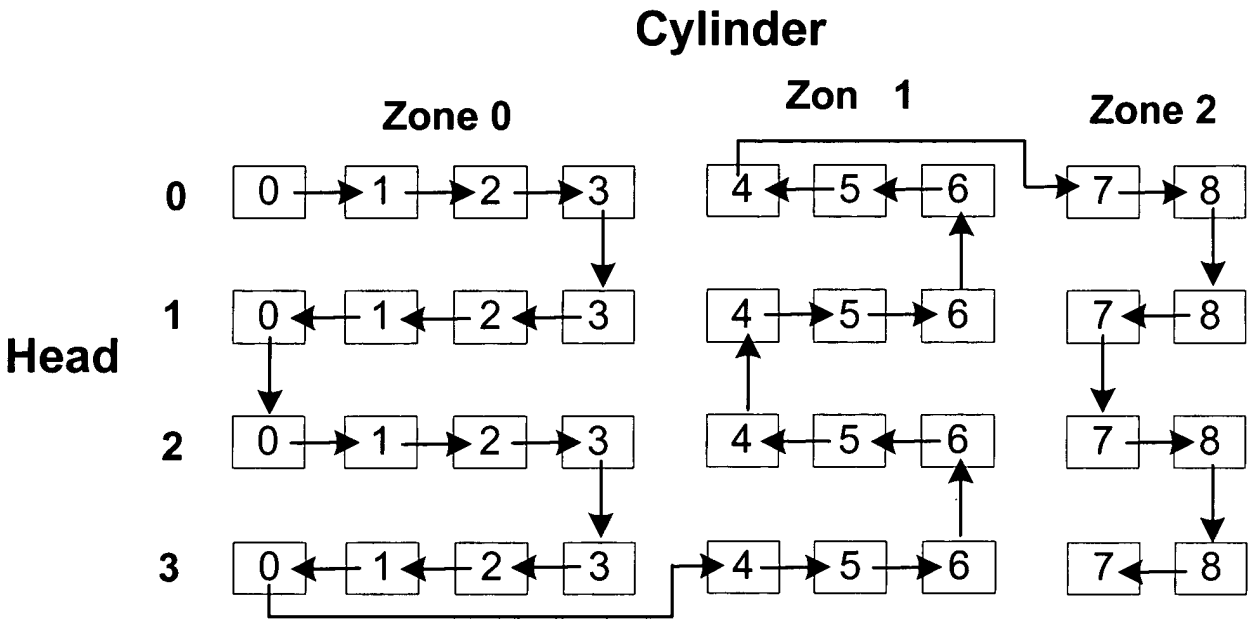


FIG. 2-1

Table 1 Physical Zone Table

Zone Number	Start Cylinder	Physical Sectors per Track
0	0	20
1	4	15
2	7	10
3	9	-

FIG. 2-2

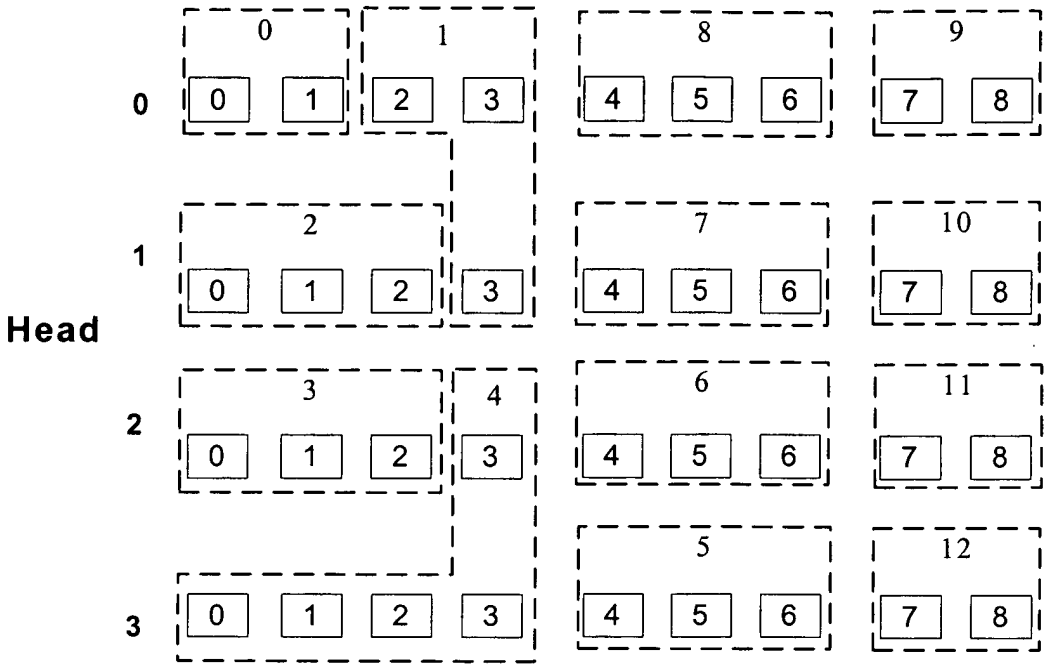


FIG. 2-3

Table 2 Logical Zone Table with Physical Track/Head Representation

LZ Number	Start Cylinder/Head	Start LBA	Logical Sectors per track
0	0 / 0	0	20
1	2 / 0	40	18
2	2 / 1	94	19
3	0 / 2	151	15
4	3 / 2	196	20
5	4 / 3	276	15
6	6 / 2	321	13
7	4 / 1	360	10
8	6 / 0	390	12
9	7 / 0	426	10
10	8 / 1	446	8
11	7 / 2	462	5
12	8 / 3	472	9
13	9 / 3	490	-

FIG. 2-4

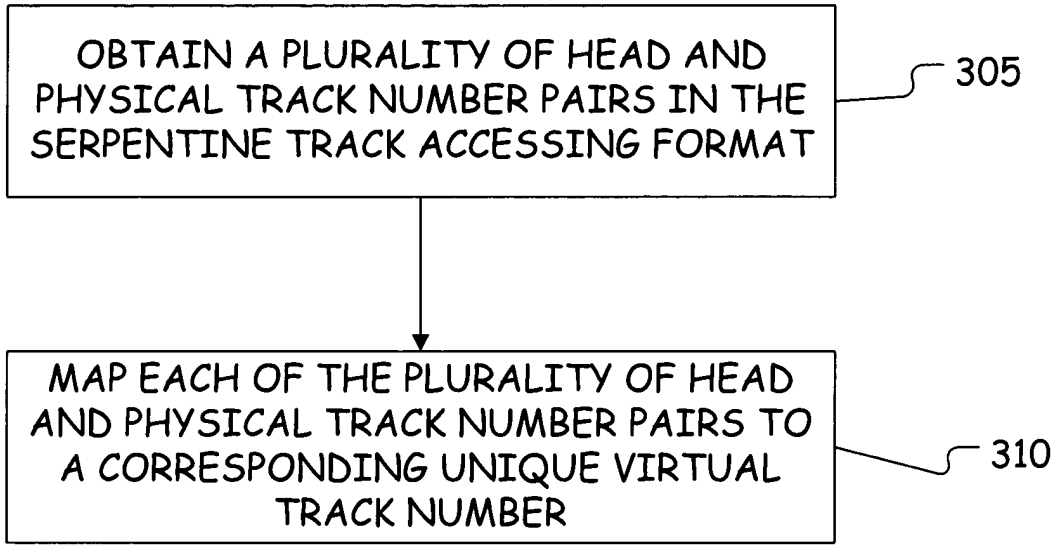

OBTAIN A PLURALITY OF HEAD AND PHYSICAL TRACK NUMBER PAIRS IN THE SERPENTINE TRACK ACCESSING FORMAT
305
MAP EACH OF THE PLURALITY OF HEAD AND PHYSICAL TRACK NUMBER PAIRS TO A CORRESPONDING UNIQUE VIRTUAL TRACK NUMBER
310

FIG. 3-1

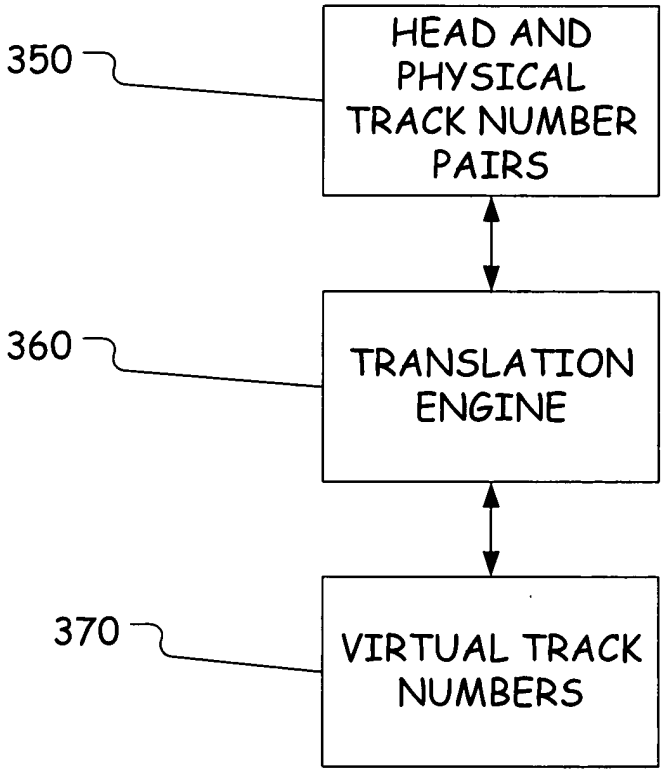

350
HEAD AND PHYSICAL TRACK NUMBER PAIRS
360
TRANSLATION ENGINE
370
VIRTUAL TRACK NUMBERS

FIG. 3-2

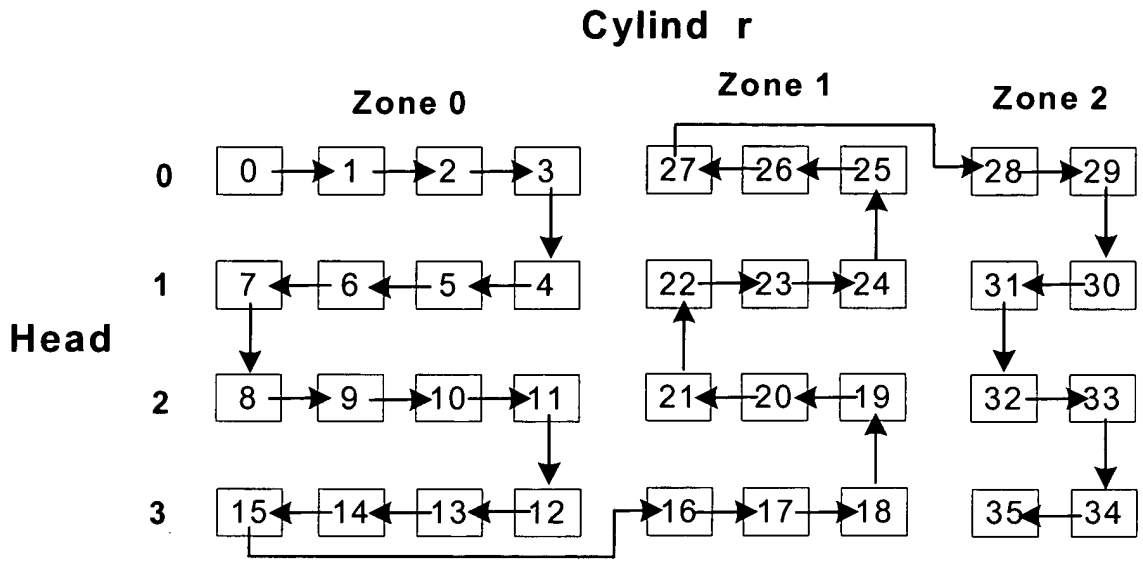

Cylind r
Zone 0
Zone 1
Zone 2
Head
0
1
2
3
0 1 2 3
27 26 25 28 29
7 6 5 4
22 23 24 31 30
8 9 10 11
21 20 19 32 33
15 14 13 12
16 17 18 35 34

FIG. 4-1

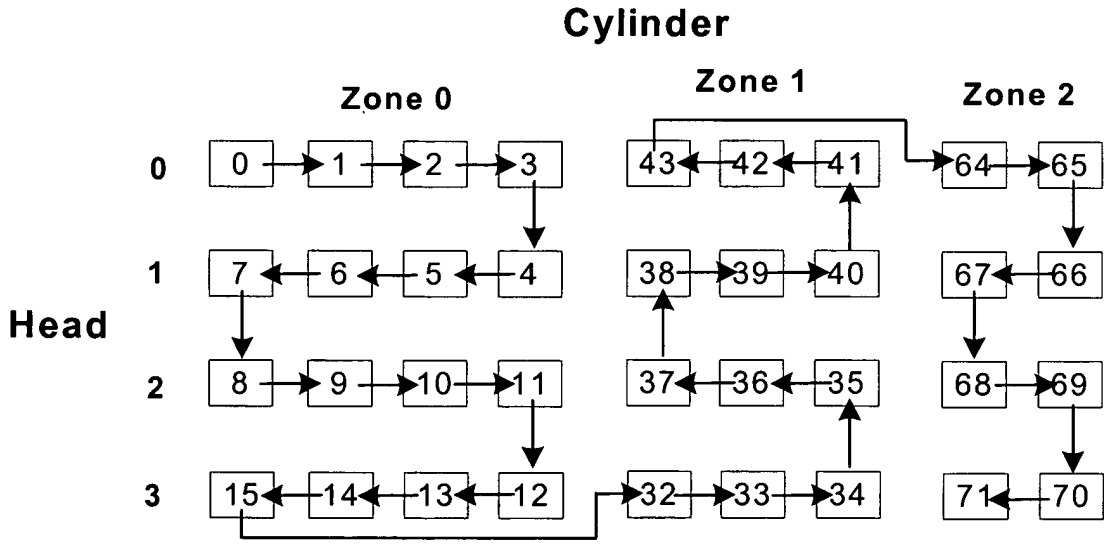

Cylinder
Zone 0
Zone 1
Zone 2
Head
0
1
2
3
0 1 2 3
43 42 41 64 65
7 6 5 4
38 39 40 67 66
8 9 10 11
37 36 35 68 69
15 14 13 12
32 33 34 71 70

FIG. 4-2

Cylinder / Head	Offset N
Zone 0:	
Cylinder 0 / head 0	0
Cylinder 1 / head 0	1
Cylinder 2 / head 0	2
Cylinder 3 / head 0	3
Cylinder 3 / head 1	4
Cylinder 2 / head 1	5
Cylinder 1 / head 1	6
Cylinder 0 / head 1	7
Cylinder 0 / head 2	8
Cylinder 1 / head 2	9
Cylinder 2 / head 2	A
Cylinder 3 / head 2	B
Cylinder 3 / head 3	C
Cylinder 2 / head 3	D
Cylinder 1 / head 3	E
Cylinder 0 / head 3	F
Zone 1:	
Cylinder 4 / head 3	0
Cylinder 5 / head 3	1
Cylinder 6 / head 3	2
Cylinder 6 / head 2	3
Cylinder 5 / head 2	4
Cylinder 4 / head 2	5
Cylinder 4 / head 1	6
Cylinder 5 / head 1	7
Cylinder 6 / head 1	8
Cylinder 6 / head 0	9
Cylinder 5 / head 0	A
Cylinder 4 / head 0	B
Zone 2:	
Cylinder 7 / head 0	0
Cylinder 8 / head 0	1
Cylinder 8 / head 1	2
Cylinder 7 / head 1	3
Cylinder 7 / head 2	4
Cylinder 8 / head 2	5
Cylinder 8 / head 3	6
Cylinder 7 / head 3	7

FIG. 5-1

Physical Cylinder/Head	Virtual Track Number K
Cylinder 0 / head 0	00
Cylinder 1 / head 0	01
Cylinder 2 / head 0	02
Cylinder 3 / head 0	03
Cylinder 3 / head 1	04
Cylinder 2 / head 1	05
Cylinder 1 / head 1	06
Cylinder 0 / head 1	07
Cylinder 0 / head 2	08
Cylinder 1 / head 2	09
Cylinder 2 / head 2	0A
Cylinder 3 / head 2	0B
Cylinder 3 / head 3	0C
Cylinder 2 / head 3	0D
Cylinder 1 / head 3	0E
Cylinder 0 / head 3	0F
Zone 1:	
Cylinder 4 / head 3	20
Cylinder 5 / head 3	21
Cylinder 6 / head 3	22
Cylinder 6 / head 2	23
Cylinder 5 / head 2	24
Cylinder 4 / head 2	25
Cylinder 4 / head 1	26
Cylinder 5 / head 1	27
Cylinder 6 / head 1	28
Cylinder 6 / head 0	29
Cylinder 5 / head 0	2A
Cylinder 4 / head 0	2B
Zone 2:	
Cylinder 7 / head 0	40
Cylinder 8 / head 0	41
Cylinder 8 / head 1	42
Cylinder 7 / head 1	43
Cylinder 7 / head 2	44
Cylinder 8 / head 2	45
Cylinder 8 / head 3	46
Cylinder 7 / head 3	47

FIG. 5-2

Table 3 LZT Table with Virtual Track Representation

LZ Number	Start Virtual Track	Start LBA	Logical Sectors per track
0	0	0	20
1	2	40	18
2	5	94	19
3	6	151	15
4	9	196	20
5	32	276	15
6	35	321	13
7	38	360	10
8	41	390	12
9	64	426	10
10	66	446	8
11	68	462	5
12	70	472	9
13	96	490	-

FIG. 6